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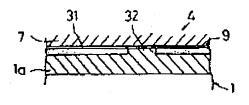
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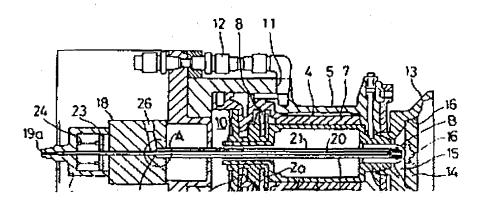
(54) ROTARY ATOMIZING ELECTROSTATIC PAINTING MACHINE

(57) Abstract:

PURPOSE: To employ a center feed system and to achieve the simplification of a structure and the enhancement of operability by applying voltage to a rotary shaft through a housing by exposing a conductive member to the air layer of an air bearing.

CONSTITUTION: A hollow rotary shaft 1 having an atomizing head 13 mounted to the leading end thereof is supported in a housing 5 through an air bearing 4 and a non-conductive hard film 31 is provided to either one of the outer peripheral surface of the rotary shaft 1 and the bearing surface of the air bearing 4. A paint supply pipe 17 is coaxially arranged in the rotary shaft 1 and the paint emitted from the leading end of the paint supply pipe 17 is guided from the





the front surface thereof to be atomized by centrifugal force. A part of the hard film 31 is notched and a conductive member 32 extended from a base material is arranged at the notched part. As a result, voltage can be applied to the rotary shaft through the housing and a center feed system can be employed and the simplification of a structure and the enhancement of operability can be achieved.

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